

and the base layer; indicating means disposed in the first chamber; first conductive means electrically connected to one terminal of the battery and to one end of the indicating means; second conductive means connected to the opposite end of the indicating means and extending into the second chamber; third conductive means extending from within the second chamber and extending to contact the other terminal of the battery; and whereby the second conductive means and the third conductive means in the second chamber are spaced apart and said second chamber being deformable so that upon pressing of the second chamber the second conductive means will electrically contact the third conductive means thereby placing the indicating means in electrical contact across the terminals of the battery to indicate the strength of the battery.

Claim 34

35. The battery of claim ~~34~~ wherein the indicating means in said first chamber undergoes a visible change when subject to at least a pre-determined voltage value.

36. The battery of claim ~~34~~ wherein at least the top layer of the first chamber is transparent.

37. The battery of claim ~~34~~ wherein at least the top layer of the first chamber is translucent.

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38. The battery of claim ~~34~~ wherein the indicating means is a chemical redox composition which changes color when the voltage potential across the terminals of the battery crosses a pre-determined voltage.

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39. The battery of claim ~~34~~ wherein the indicating means is a liquid crystal composition that changes phases when the electric field across the chamber exceeds a pre-determined value.

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40. The battery of claim ~~34~~ wherein the second chamber upon being depressed will remain depressed thereby completing the circuit and placing the indicating means across the terminals of the cell.

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41. The battery of claim ~~34~~ wherein the first conductive means comprises a conductive layer which has a reduced cross-sectional area in said first chamber and the indicating means in said first chamber comprises a heat sensitive color indicating material adapted to undergo a color change when the temperature in said first chamber rises to a pre-determined temperature when the voltage of the current flowing through the conductive layer exceeds a pre-determined value.

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42. The battery of claim ~~34~~ wherein the first conductive means comprises a conductive layer which has a reduced cross-sectional area in said

first chamber and wherein the indicating means comprises a pyrotechic material adapted to decompose when the temperature of the conductive layer in said first chamber exceeds a pre-determined temperature, the conductive layer in said first chamber is adapted to exceed said pre-determined temperature when the voltage of the current through said conductive layer exceeds a pre-determined value.

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43. The battery of claim ~~34~~ wherein the first conductive means comprises a conductive layer which has a reduced cross-sectional area in said first chamber such that when the voltage of the current flowing through the conductive layer in said first chamber exceeds a pre-determined value the current flowing through said conductive layer in said first chamber raises the temperature of the conductive layer in the chamber to the melting point of the conductive layer causing the conductive layer to melt at the reduced cross-sectional area.

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44. The battery of claim ~~34~~ wherein the indicating means is a light emitting diode that undergoes a visible change when the voltage applied to the light emitting diode crosses a pre-determined value.

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REMARKS

Applicants would like to express their

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